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Editorial

Editorial of special issue on climate change impact on water environment

Climate change is one of the most significant phenomena of the 21st century which has gained a lot of attention in recent times. It has affected all dimensions of natural and managed ecosystems, from food and energy security to water environment. Knowledge of climate change impacts on water environment can be valuable for water resources management in agriculture, urban and industrial water supply, hydropower generation and ecosystem maintenance. Projection of the state of the global climate system and its consequences on water environment can help managers develop adaptive strategies, and make strategic investments in infrastructure and information sources for integrated water resources management. This special issue is composed of thirty original articles contributed by global authors and illustrates the historical and projected impacts of climate change on water and environment, particularly on hydrology, snow and glaciers, groundwater resources and water quality in diverse geographical and climatic regions of the world. This issue also highlights the potential adaptation strategies to offset the negative impacts of climate change on water resources and selected water use sectors such as agriculture and crop production.

Sangam Shrestha
Water Engineering and Management, School of Engineering and Technology, Asian Institute of Technology, P.O. Box 4, Klong Luang, Pathum Thani 12120, Thailand
E-mail address: sangam@ait.ac.th.

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